

CLAIMS

1. An information recorder, characterized  
by:

5           recording means for recording data  
accompanying user data in an area disposed outside a  
user data area to record the user data of a recording  
area of an information recording medium.

10           2. The information recorder as claimed in  
claim 1, characterized in that said recording means  
includes means for recording a same attribute as an  
attribute of the user data area as an attribute of  
the area disposed outside the user data area.

15           3. An information recorder, characterized  
by:

          content data recording means for recording  
content data in an information recording medium;

20           index information generating means for  
generating, for the content data, index information  
for referring to contents of the content data; and

          index information recording means for  
recording the index information generated by said  
25 index information generating means in an area

disposed outside a user data area to record user data of a recording area of the information recording medium.

5                   4. The information recorder as claimed in claim 3, characterized in that said index information recording means records the index information generated by said index information generating means in the area disposed outside the user data area to  
10 record the user data of the recording area of the information recording medium at a time after said content data recording means completes the recording of the content data in the information recording medium.

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                  5. The information recorder as claimed in claim 3, characterized in that said index information recording means successively records the index information generated by said index information  
20 generating means in the area disposed outside the user data area to record the user data of the recording area of the information recording medium during the recording of the content data in the information recording medium by said content data  
25 recording means.

6. An information recording method,  
characterized by:

recording data accompanying user data in an  
area disposed outside a user data area to record the  
5 user data of a recording area of an information  
recording medium.

7. The information recording method as  
claimed in claim 6, characterized by recording a same  
10 attribute as an attribute of the user data area as an  
attribute of the area disposed outside the user data  
area.

8. An information recording method,  
15 characterized by:

a content data recording step of recording  
content data in an information recording medium;

an index information generating step of  
generating, for the content data, index information  
20 for referring to contents of the content data; and

an index information recording step of  
recording the index information generated by said  
index information generating step in an area disposed  
outside a user data area to record user data of a  
25 recording area of the information recording medium.

9. The information recording method as claimed in claim 8, characterized in that said index information recording step records the index information generated by said index information  
5 generating step in the area disposed outside the user data area to record the user data of the recording area of the information recording medium at a time after said content data recording step completes the recording of the content data in the information  
10 recording medium.

10. The information recording method as claimed in claim 8, characterized in that said index information recording step successively records the  
15 index information generated by said index information generating step in the area disposed outside the user data area to record the user data of the recording area of the information recording medium during the recording of the content data in the information  
20 recording medium by said content data recording step.

11. A recording medium in which is recorded a program for causing a computer to execute a process of recording data accompanying user data in an area  
25 disposed outside a user data area to record the user

data of a recording area of an information recording medium.

12. The recording medium in which is  
5 recorded the program as set forth in claim 11 for causing the computer to execute a process of recording a same attribute as an attribute of the user data area as an attribute of the area disposed outside the user data area.

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13. A recording medium in which is recorded a program for causing a computer to execute:  
a content data recording process of recording content data in an information recording  
15 medium;

an index information generating process of generating, for the content data, index information for referring to contents of the content data; and  
an index information recording process of  
20 recording the index information generated by said index information generating process in an area disposed outside a user data area to record user data of a recording area of the information recording medium.

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14. The recording medium in which is  
recorded the program as set forth in claim 13,  
wherein said index information recording process  
records the index information generated by said index  
5 information generating process in the area disposed  
outside the user data area to record the user data of  
the recording area of the information recording  
medium at a time after said content data recording  
process completes the recording of the content data  
10 in the information recording medium.

15. The recording medium in which is  
recorded the program as set forth in claim 13,  
wherein said index information recording process  
15 successively records the index information generated  
by said index information generating process in the  
area disposed outside the user data area to record  
the user data of the recording area of the  
information recording medium during the recording of  
20 the content data in the information recording medium  
by said content data recording process.